



Plot 7-176. Lower Band Edge Plot (NR Band n25/2 - 20MHz QPSK – Full RB - Ant4)



Plot 7-177. Extended Lower Band Edge Plot (NR Band n25/2 - 20MHz QPSK - Full RB - Ant4)

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Plot 7-178. Upper Band Edge Plot (NR Band n2 - 20MHz QPSK – Full RB - Ant4)



Plot 7-179. Extended Upper Band Edge Plot (NR Band n2 - 20MHz QPSK – Full RB - Ant4)

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Plot 7-180. Upper Band Edge Plot (NR Band n25 - 20MHz QPSK - Full RB - Ant4)



Plot 7-181. Extended Upper Band Edge Plot (NR Band n25 - 20MHz QPSK – Full RB - Ant4)

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Plot 7-182. Lower Band Edge Plot (NR Band n25/2 - 15MHz QPSK – Full RB - Ant4)



Plot 7-183. Extended Lower Band Edge Plot (NR Band n25/2 - 15MHz QPSK - Full RB - Ant4)

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Plot 7-184. Upper Band Edge Plot (NR Band n2 - 15MHz QPSK - Full RB - Ant4)



Plot 7-185. Extended Upper Band Edge Plot (NR Band n2 - 15MHz QPSK - Full RB - Ant4)

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Plot 7-186. Upper Band Edge Plot (NR Band n25 - 15MHz QPSK - Full RB - Ant4)



Plot 7-187. Extended Upper Band Edge Plot (NR Band n25 - 15MHz QPSK – Full RB - Ant4)

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Plot 7-188. Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK – Full RB - Ant4)



Plot 7-189. Extended Lower Band Edge Plot (NR Band n25/2 - 10MHz QPSK - Full RB - Ant4)

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Plot 7-190. Upper Band Edge Plot (NR Band n2 - 10MHz QPSK - Full RB - Ant4)



Plot 7-191. Extended Upper Band Edge Plot (NR Band n2 - 10MHz QPSK - Full RB - Ant4)

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Plot 7-192. Upper Band Edge Plot (NR Band n25 - 10MHz QPSK - Full RB - Ant4)



Plot 7-193. Extended Upper Band Edge Plot (NR Band n25 - 10MHz QPSK – Full RB - Ant4)

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Plot 7-194. Lower Band Edge Plot (NR Band n25/2 – 5MHz QPSK – Full RB - Ant4)



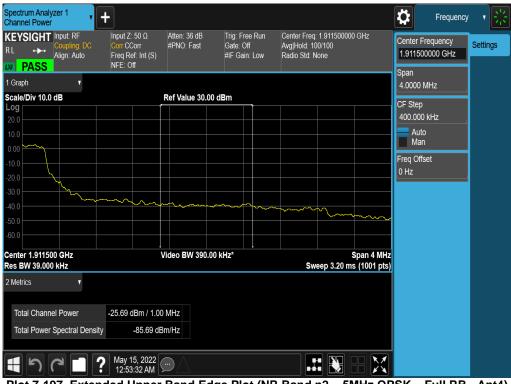
Plot 7-195. Extended Lower Band Edge Plot (NR Band n25/2 – 5MHz QPSK – Full RB - Ant4)

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Plot 7-196. Upper Band Edge Plot (NR Band n2 – 5MHz QPSK – Full RB - Ant4)



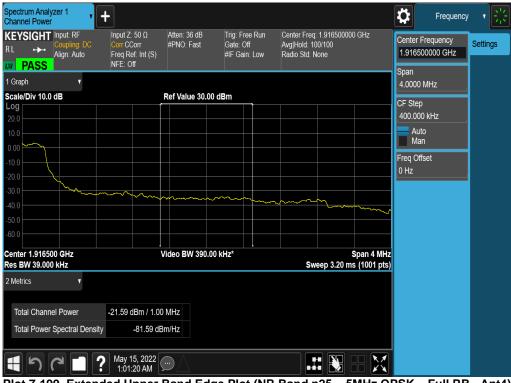
Plot 7-197. Extended Upper Band Edge Plot (NR Band n2 – 5MHz QPSK – Full RB - Ant4)

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Plot 7-198. Upper Band Edge Plot (NR Band n25 – 5MHz QPSK – Full RB - Ant4)



Plot 7-199. Extended Upper Band Edge Plot (NR Band n25 – 5MHz QPSK – Full RB - Ant4)

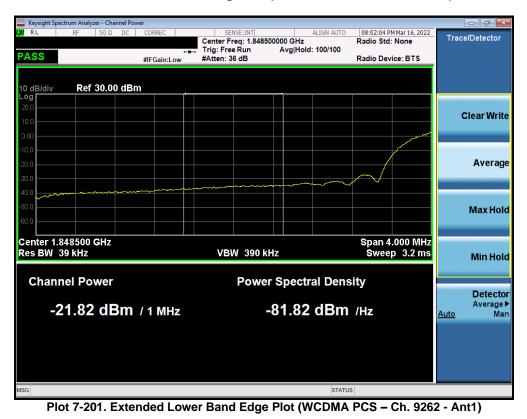
FCC ID: C3K1997		PART 24 MEASUREMENT REPORT	
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# WCDMA PCS - Ant1

Keysight Spectrum Analyze	er - Swept SA					- 6 💌
XI RL RF	50 Ω DC	CORREC	SENSE:INT	ALIGN AUTO #Avg Type: RMS	08:01:53 PM Mar 16, 2022 TRACE 1 2 3 4 5 6	Frequency
PASS		PNO: Wide ↔ IFGain:Low	Trig: Free Run #Atten: 36 dB	#Avg Type. Rivis		
10 dB/div Ref 25.	00 dBm			Mkr1	1.849 985 GHz -20.76 dBm	Auto Tun
-og Trace 1 Pass 15.0						Center Fre 1.850000000 GH
5.00						<b>Start Fre</b> 1.842500000 GH
25.0			1			<b>Stop Fre</b> 1.857500000 G⊦
45.0	m		~~~~		M. man	CF Ste 1.500000 M⊢ <u>Auto</u> Ma
55.0						Freq Offs 0 H
65.0						Scale Typ
Center 1.850000 C Res BW 100 kHz		#VBW	300 kHz	Sweep 1	Span 15.00 MHz .000 ms (1001 pts)	Log <u>Li</u>
ISG				STATUS	3	

Plot 7-200. Lower Band Edge Plot (WCDMA PCS - Ch. 9262 - Ant1)



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Plot 7-202. Upper Band Edge Plot (WCDMA PCS - Ch. 9538 - Ant1)



Plot 7-203. Extended Upper Band Edge Plot (WCDMA PCS - Ch. 9538 - Ant1)

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# 7.6 Peak-Average Ratio

### **Test Overview**

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

### The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

## Test Procedure Used

ANSI C63.26-2015 - Section 5.2.3.4

## Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-5. Test Instrument & Measurement Setup

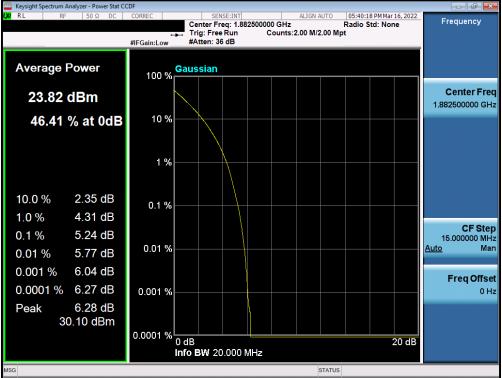
#### Test Notes

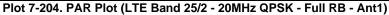
None.

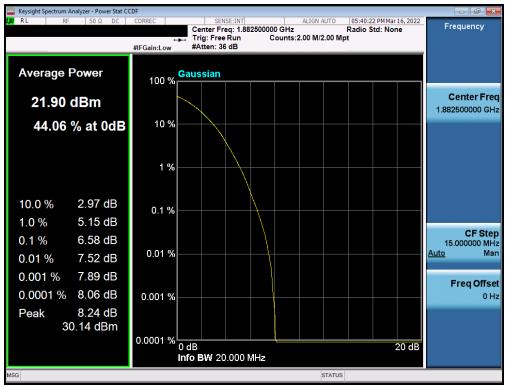
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# LTE Band 2<u>5/2 – Ant1</u>



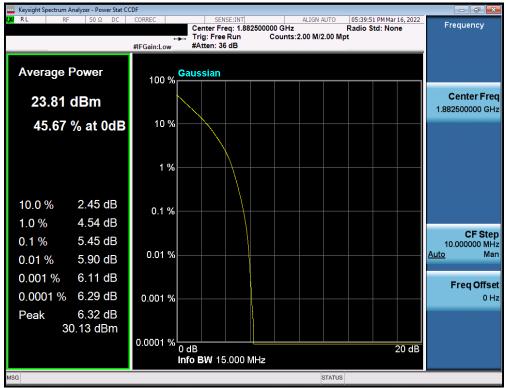




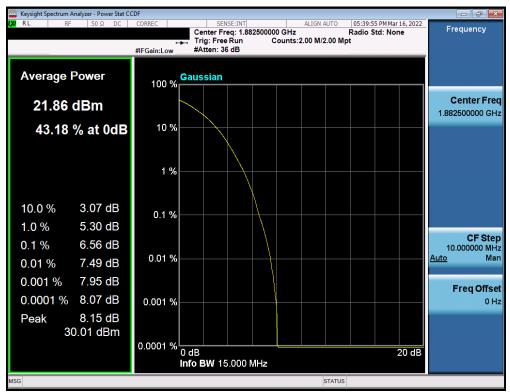
Plot 7-205. PAR Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB - Ant1)

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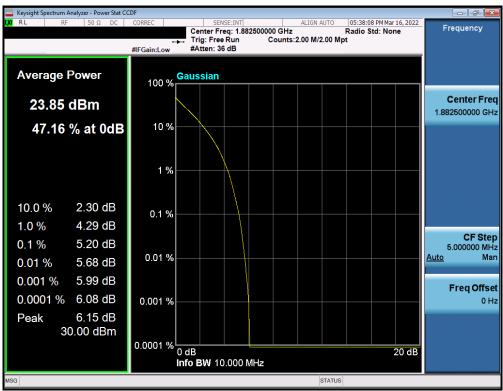




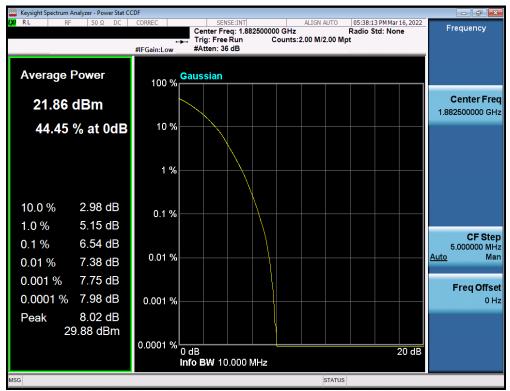
Plot 7-207. PAR Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB - Ant1)

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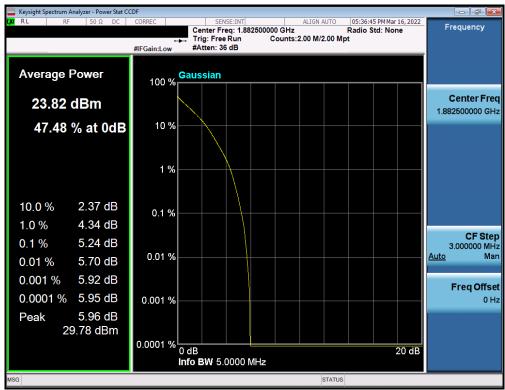


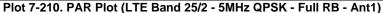


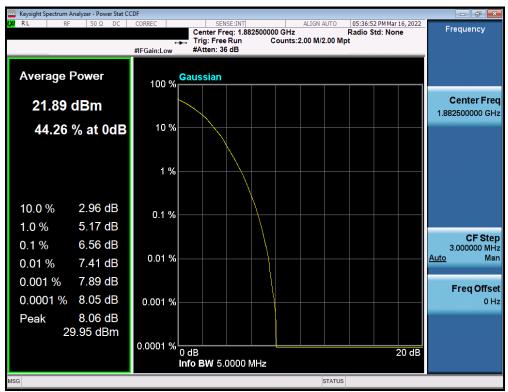
Plot 7-209. PAR Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB - Ant1)

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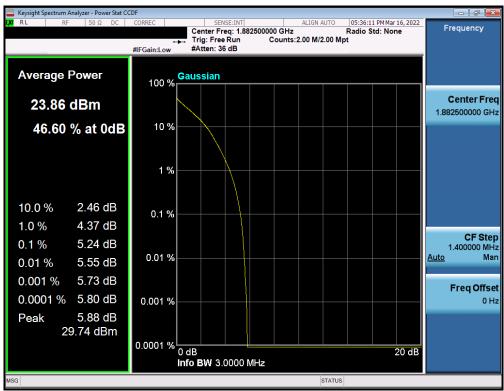


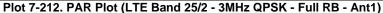


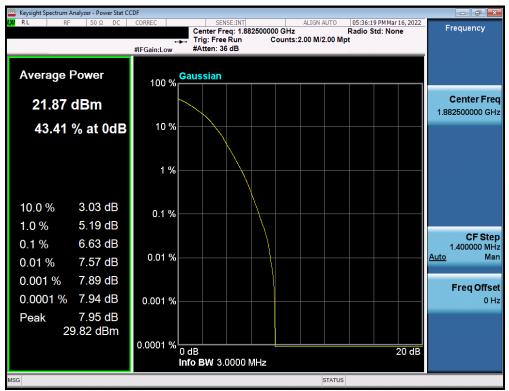
Plot 7-211. PAR Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB - Ant1)

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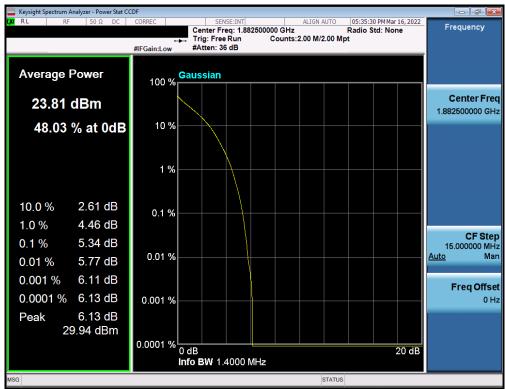


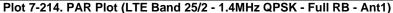


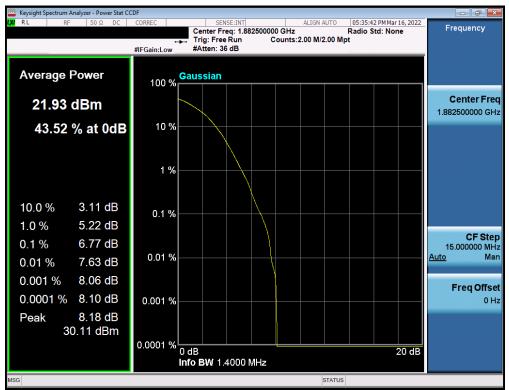
Plot 7-213. PAR Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB - Ant1)

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Plot 7-215. PAR Plot (LTE Band 25/2 - 1.4MHz 16-QAM - Full RB - Ant1)

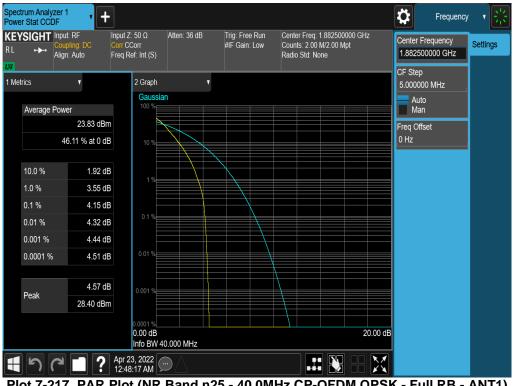
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# NR Band n25/2 - Ant1



Plot 7-216. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)



Plot 7-217. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM QPSK - Full RB - ANT1)

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Plot 7-218. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM 16-QAM - Full RB - ANT1)



Plot 7-219. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

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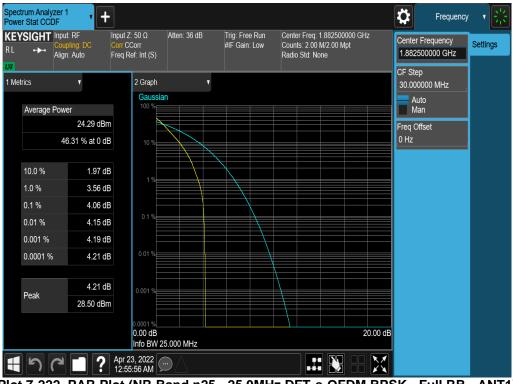
Plot 7-220. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM QPSK - Full RB - ANT1)



Plot 7-221. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM 16-QAM - Full RB - ANT1)

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Plot 7-222. PAR Plot (NR Band n25 - 25.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)



Plot 7-223. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM QPSK - Full RB - ANT1)

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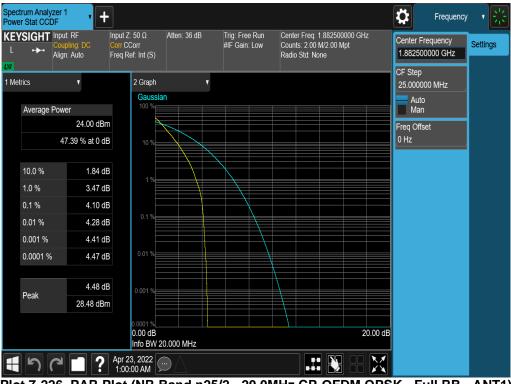
Plot 7-224. PAR Plot (NR Band n25 - 25MHz CP-OFDM 16-QAM - Full RB - ANT1)



Plot 7-225. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

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Plot 7-226. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - ANT1)



Plot 7-227. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 16-QAM - Full RB - ANT1)

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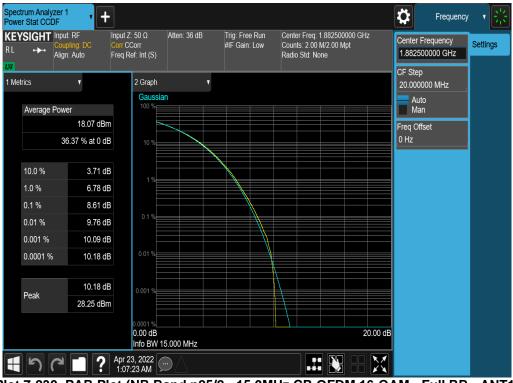
Plot 7-228. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)



Plot 7-229. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - ANT1)

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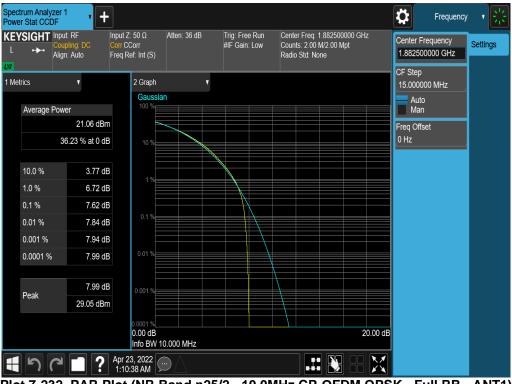
Plot 7-230. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 16-QAM - Full RB - ANT1)



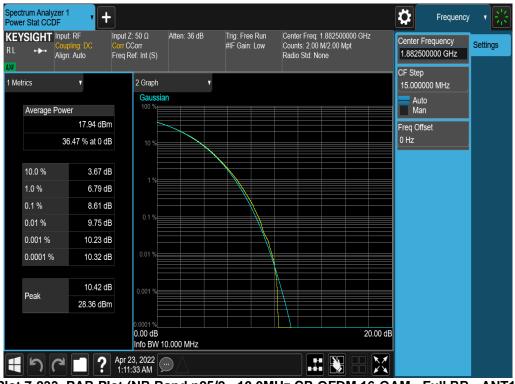
Plot 7-231. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

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Plot 7-232. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - ANT1)



Plot 7-233. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 16-QAM - Full RB - ANT1)

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Plot 7-234. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)



Plot 7-235. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - ANT1)

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Plot 7-236. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 16-QAM - Full RB - ANT1)

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# NR Band n25/2 – ANT4



Plot 7-237. PAR Plot (NR Band n25 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT4)



## Plot 7-238. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM QPSK - Full RB - ANT4)

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Plot 7-239. PAR Plot (NR Band n25 - 40.0MHz CP-OFDM 16-QAM - Full RB - ANT4)



Plot 7-240. PAR Plot (NR Band n25 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT4)

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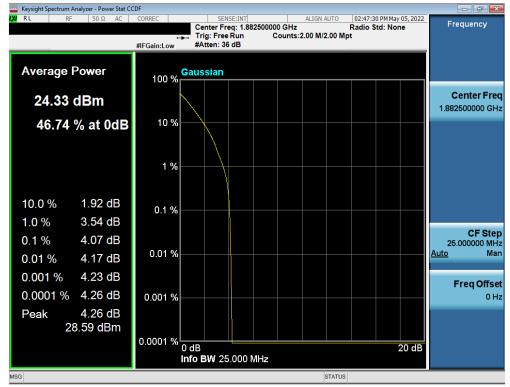
Plot 7-241. PAR Plot (NR Band n25 - 30.0MHz CP-OFDM QPSK - Full RB - ANT4)



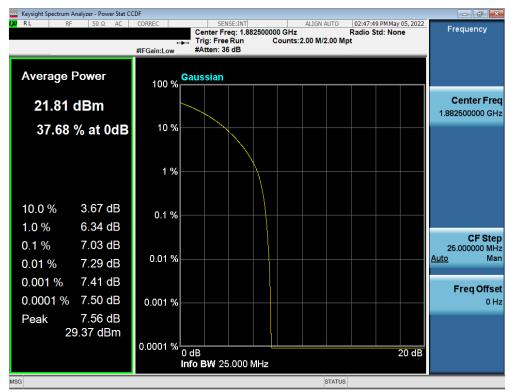
Plot 7-242. PAR Plot (NR Band n25	- 30.0MHz CP-OFDM 16-QAM - Full RB - ANT4)
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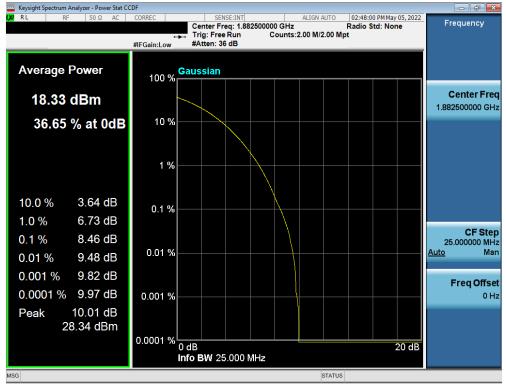




Plot 7-244. PAR Plot (NR Band n25 - 25.0MHz CP-OFDM QPSK - Full RB - ANT4)

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Plot 7-246. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANT4)

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Plot 7-247. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - ANT4)



Plot 7-248. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 16-QAM - Full RB - ANT4)

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